STOCK MANAGEMENT SYSTEM

A Project Report submitted in partial fulfilment of the requirements for the award of the degree of

Bachelor of Technology

in

Computer Science and Engineering

by

Neeraj Chaudhary (Roll no.: 191500488)
Harishankar Kumar Yadav (Roll no.: 191500314)
Pramod Kumar (Roll no.: 201599018)
Shivkesh Yadav (Roll no.: 191500777)

Group No.: 126

Under the Guidance of

Ms. Munmi Gogoi

Department of Computer Engineering & Applications

Institute of Engineering & Technology

GLA University
Mathura- 281406, INDIA
December, 2022

Department of Computer Engineering and Applications

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road,

Chaumuha, Mathura – 281406 U.P (India)

Declaration

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project "Stock Management System", in partial fullfillment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the
Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of Ms. Munmi Gogoi, Assistant Professor, Dept. of CEA, GLA University.

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign_____
Neeraj Chaudhary (191500488)

Sign_____
Harishankar Kumar Yadav (191500314)

Sign_____
Pramod Kumar (201599018)

Sign_____
Shivkesh Yadav (191500777)

Department of Computer Engineering and Applications

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road,

Chaumuha, Mathura – 281406 U.P (India)

Certificate

This is to certify that the project entitled " Stock Management System ", carried out in Major Project, is a bonafide work by Harishankar Kumar Yadav, Neeraj Chaudhary, Pramod Kumar, Shivkesh Yadav and is submitted in partial fulfilment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Sign_____
Supervisor: Ms. Munmi Gogoi
Associate Professor
Dep. Of Computer Eng. & App.
Date:

Sign_____
Project Co-ordinator
(Dr. Mayank Srivastava)
Associate Professor
Dep. Of Computer Eng. & App.
Date:

Sign_____
Program Co-ordinator
(Dr. Rajesh Tripathi)
Associate Professor
Dep. Of Computer Eng. & App.
Date:

Certificate of Achievement

Bronze

GLA UNIVERSITY MATHURA

Accredited with A Grade by NAAC

Job Oriented Value-Added Course

on

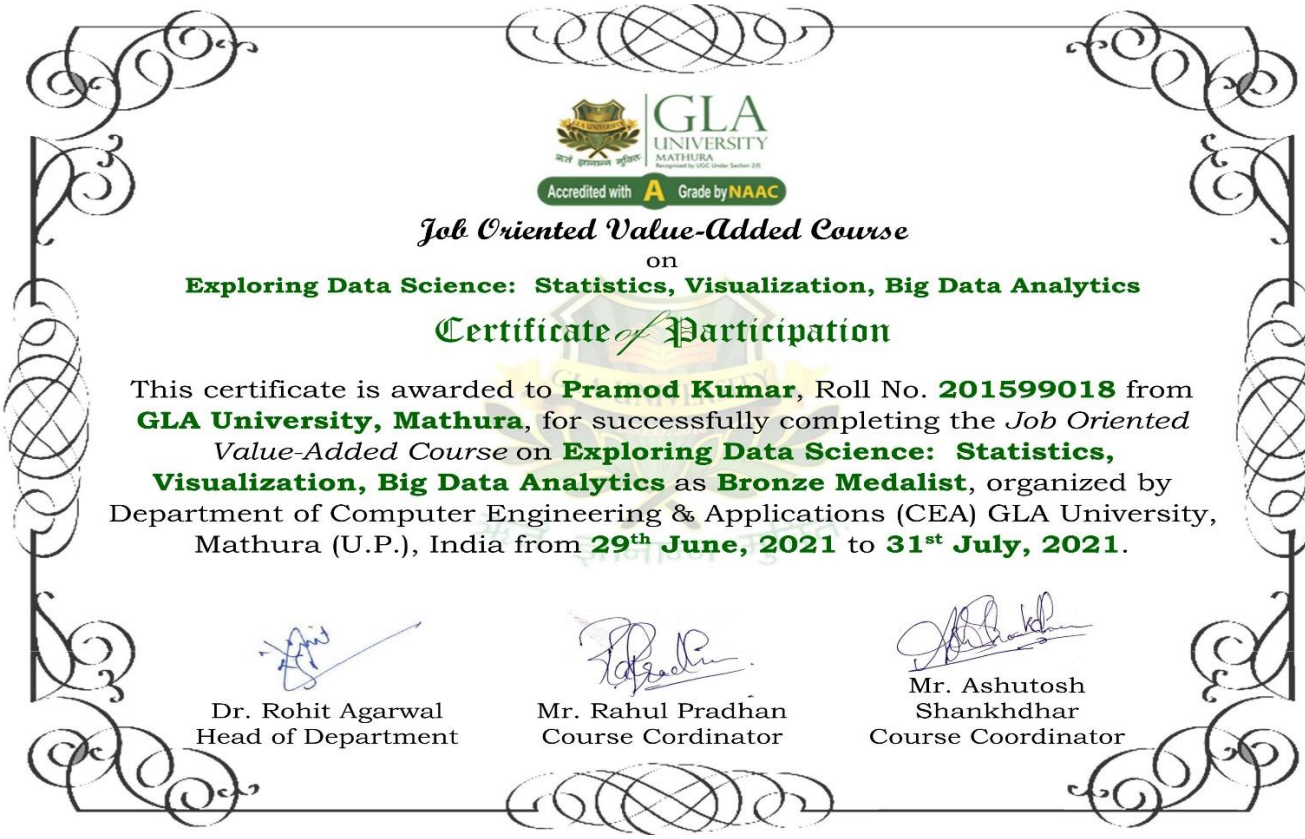
Hands on DevOps using AWS

Certificate of Participation

This certificate is awarded to SHIVKESH YADAV, Roll No. 191500777 from GLA University, Mathura, for successfully completing the *Job Oriented Value-Added Course* on Hands on DevOps using AWS, organized by Department of Computer Engineering & Applications (CEA) GLA University, Mathura (U.P.), India from 1st July, 2021 to 31st July, 2021.

Dr. Rohit Agarwal
Head of Department

Mr. Jitesh Kumar Bhatia
Course Coordinator



GLA UNIVERSITY MATHURA

Accredited with A Grade by NAAC

Job Oriented Value-Added Course

on

Exploring Data Science: Statistics, Visualization, Big Data Analytics

Certificate of Participation

This certificate is awarded to **Pramod Kumar**, Roll No. **201599018** from **GLA University, Mathura**, for successfully completing the *Job Oriented Value-Added Course* on **Exploring Data Science: Statistics, Visualization, Big Data Analytics** as **Bronze Medalist**, organized by Department of Computer Engineering & Applications (CEA) GLA University, Mathura (U.P.), India from **29th June, 2021** to **31st July, 2021**.

Dr. Rohit Agarwal
Head of Department

Mr. Rahul Pradhan
Course Cordinator

Mr. Ashutosh Shankhdhar
Course Coordinator

BRONZE

GLA UNIVERSITY MATHURA

Accredited with A Grade by NAAC

Job Oriented Value-Added Course

on

Hybrid Mobile App Development with React-Native

Certificate of Participation

This certificate is awarded to **HARISHANKAR YADAV**, Roll No. **191500314** from **GLA University, Mathura**, for successfully completing the *Job Oriented Value-Added Course* on **Hybrid Mobile App Development with React-Native**, organized by Department of Computer Engineering & Applications (CEA) GLA University, Mathura (U.P.), India from **29th June, 2021** to **31st July, 2021**.

Dr. Rohit Agarwal
Head of Department

Mr. Pankaj Kapoor
Course Coordinator

Grow with Google

Applied Digital Skills

Certificate of Completion

THIS CERTIFIES THAT

Harishankar Kumar Yadav

HAS COMPLETED

Java Programming Full Course

AWARDED ON

April 30, 2022

Department of Computer Engineering and Application

GLA University, 17 km. Stone NH#2, Mathura-Delhi Road,
Chaumuha, Mathura – 281406 U.P (India)

ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us theinstructor Ms. Munmi Gogoi, our technical trainer and supervisor.

She has been helping us since Day 1 in this project. She provided us with the roadmap, the basic guidelines explaining on how to work on the project. She has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without her help, we wouldn't have been able to complete this project. And at last but not the least we would like to thank our dear parents for helping us to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

Neeraj Chaudhary (191500488)
Harishankar Kumar Yadav (191500314)
Pramod Kumar (201599018)
Shivkesh Yadav (191500777)

ABSTRACT

This project is aimed at developing a web based application named Stock Management System for managing the stock system of any organization. The Stock Management System (SMS) refers to the system and processes to manage the stock of organization with the involvement of Technology system. This system can be used to store the details of the stock, stock maintenance, update the stock based on the sales details, and generate sales and stock report daily or weekly based. This project is categorize individual aspects for the sales and stock management system. In this system we are solving different problem affecting to direct sales management and purchase management. Stock Management System is important to ensure quality control in businesses that handle transactions resolving around consumer goods. Without proper stock control, a large retail store may run out of stock on an important item. A good stock management system will alert the wholesaler when it is time to record. Stock Management System is also on important means of automatically tracking large shipment. An automated Stock Management System helps to minimize the errors while recording the stock.

CONTENTS

CHAPTER-1

INTRODUCTION

Project Stock Management System is a complete desktop based application designed on .Net The technology using Visual Studio Software. The main aim of the project is to develop Stock Management System Model software in which all the information regarding the stock of the organization will be presented. It is an Intranet based desktop application which has admin component to manage the stock and maintenance of the stock system.

This desktop application is based on the management of stock of an organization. The application contains general organization profile, sales details, Purchase details and the remaining stock that are presented in the organization. There is a provision of updating the stock also. This application also provides the remaining balance of the stock as well as the details of the balance of transaction.

Each new stock is created and entitled with the named and the entry date of that stock and it can also be update any time when required as per the transaction or the sales is returned in case. Here the login page is created in order to protect the management of the stock of organization in order to prevent it from the threads and misuse of the stock .

MOTIVATION

Now, all kinds of human needs are increased. At the same time,information technology is being developed very, very fast. In the competitive business world, people expect a very efficient, effective with quick and quality services from goods/service providers. Now-a day, mobile phones are vital for everyone's life. These mobile phones are available in market with different models, different facilities, and so on. Therefore, this project is a small attempt to provide an efficient and effective with quick and quality services through Inventory Management Systemfor Tele soon Phone Shop, which is a mobile phone business organization. 1At present, available inventory, sold items, orders for purchase and other business related activities are entered and calculated manually with the consumption of a lot of man power. Therefore, it was decided to analyze, design and develop a system to automate the day to day transactions of Tele soon Phone Shop to give an efficient, effective with quick and quality services for their customers.

Improved customer services lead to increase profitability of the organization.

The motivation behind a stock management system is to efficiently and effectively manage the inventory of a business. This system allows a business to keep track of the quantity and status of their inventory, which can include raw materials, finished products, and other supplies.

By implementing a stock management system, a business can:

1. Optimize inventory levels: With a stock management system in place, a business can keep track of the inventory levels and set optimal reorder points, ensuring that they always have enough stock on hand to meet customer demands without overstocking.

2. Reduce costs: By keeping track of inventory levels, a business can avoid stockouts and reduce the need for rush orders, which can be expensive.

3. Improve customer service: A stock management system ensures that a business can fulfill orders quickly and efficiently, leading to better customer satisfaction.

4. Increase profitability: With a better understanding of inventory levels and sales trends, a business can make informed decisions about pricing, promotions, and inventory levels, which can increase profitability.

OBJECTIVE

The objective of this project is to introduce a computer based Inventory Management system to the Tele soon phone shop, Jaffna. This system will perform the stock control and basic common accounting activities of the above Tele soon phone shop efficiently and effectively. The staff of the Tele soon phone shop will feel better to work with the system by comparing with the existing manual system. It will be an off line system, but can be extended to online at future according to the requirements. It will provide an efficient database and generate variety of reports that needed to the Administration of the Tele soon phone shop.

- To provide a user -friendly system for all employer and employees of the phone shop, this will make easy to carry out their day to day work.
- The system will provide updated details in an efficient manner for easy decision making of the managerial level staff.
- The system will provide the reports of current position of the inventory. Will help to identify the new requirements of the customers.
- This system will maintain the information correctly, that will help for day to day transactions and other works.
- Maintaining the Re order levels of the stock items by providing the alert and other guide lines through messages to the user.
- Searching facilities are to be given in the new system, such as search by product name, product type, product category and all other important needed searching facilities.
- To facilitate the employer and employees to work with a graphical user interface (GUI) system. By this, training time for system learning will be reduced.

SCOPE OF THE PROJECT

The scope of a stock management system can vary depending on the size and needs of the business. However, in general, the scope of a stock management system includes:

1. Inventory tracking: This involves keeping track of the quantity, location, and status of inventory items, such as raw materials, finished products, and supplies.

2. Reorder management: This involves setting optimal reorder points for inventory items to ensure that the business always has enough stock on hand to meet customer demands without overstocking.

3. Supplier management: This involves managing relationships with suppliers and ensuring that they deliver inventory items on time and at the expected quality level.

4. Sales forecasting: This involves predicting future sales trends to ensure that the business has the right amount of inventory on hand to meet customer demands.

5. Reporting and analytics: This involves generating reports and analyzing data to identify trends and make informed decisions about inventory management.

6. Integration with other systems: This involves integrating the stock management system with other business systems, such as accounting and point-of-sale systems, to ensure that inventory levels are accurately reflected across all systems.

Overall, the scope of a stock management system is to provide a comprehensive solution for managing inventory levels, ensuring that the business has the right amount of stock on hand to meet customer demands, reducing costs, and increasing profitability.

EXISTING SYSTEM

The existing communication system is not built as a software application. Everybody communicates with others physically or through the mails. To make this complex communication job simple and allows the users to participate in live communication and save unproductive time it is to be built as a software application.

Each and every user or employee of an organization has to register, get into his inbox and check for his mail which doesn't provide live communication resemblance to the user. This facility does not categorize the users depending on their interests. This type of communication channel fails in providing effective user friendly communication between the users. If this channel grows up to some extent then it will be harder to place some restrictions on the users. As a result, ineffective communication wastes the user time.

SOURCES :

The source of the project (including all the project work, documentations and presentations) will is available at the following link.

https://github.com/rpramod558

https://github.com/Harishankar-Kumar-Yadav

CHAPTER-2
SOFTWARE REQUIREMENT ANALYSIS

The monitoring and control of goods and stock so that new stock can be ordered as required and the right numbers and quantities made available at all times. In other words, in stock Management Administrator or employee check and control the goods and stock in the shop or malls. Like they confirm how many goods are sold and how many are remains in the stock. They also order goods which are about to be finished from the stock. So the flow of market should be continue and customer's demand can be full fill without any time interruptions. In stock management administrator divide different type of item in different type of item category. So they can easy to search in database. And it also helps to create invoice very easily. Mainly this project is created for assemble all data of stock in or out though computer so that the data can be easily access or modify or delete.
A stock management system is a software application that helps businesses manage their inventory levels more efficiently. The system tracks inventory levels in real-time, enabling businesses to make informed decisions about purchasing, production, and sales. A stock management system can be used to manage a wide range of inventory types, including raw materials, finished products, supplies, and equipment.

Stock management systems typically include a range of features, including inventory tracking, reorder management, supplier management, sales forecasting, and reporting and analytics. The system may also include barcode or RFID tracking capabilities, allowing businesses to track inventory items more accurately and efficiently.

By implementing a stock management system, businesses can improve their inventory management processes, reduce costs, and increase efficiency. The system can help businesses avoid stockouts, reduce overstocking, and optimize inventory levels to meet customer demand more effectively. Additionally, the system can provide valuable data and analytics, allowing businesses to make informed decisions about inventory management and other aspects of their business.

Overall, a stock management system is an essential tool for any business that wants to manage its inventory more efficiently and effectively, improve its customer service levels, and increase profitability.

PROBLEM STATEMENT

The problem statement of a stock management system can vary depending on the specific issues that a business is facing with its inventory management. However, in general, the problem statement for a stock management system can include:

1. Inaccurate inventory tracking: A business may struggle to keep track of its inventory levels, which can lead to stockouts, overstocking, and other inventory-related problems.

2. Inefficient reorder management: A business may struggle to set optimal reorder points for inventory items, resulting in either stockouts or overstocking, which can lead to increased costs and reduced profitability.

3. Poor supplier management: A business may struggle to manage relationships with suppliers, leading to delays in inventory delivery, lower-quality inventory items, and other issues.

4. Lack of sales forecasting: A business may struggle to predict future sales trends, resulting in either stockouts or overstocking, which can lead to increased costs and reduced profitability.

5. Manual inventory management: A business may rely on manual methods for inventory management, such as spreadsheets or paper records, which can be time-consuming and error-prone.

6. Lack of integration with other systems: A business may struggle to integrate its stock management system with other business systems, leading to inaccuracies in inventory levels across different systems.

Overall, the problem statement for a stock management system is to address these challenges and provide a comprehensive solution for managing inventory levels, reducing costs, improving efficiency, and increasing profitability.

PROPOSED SYSTEM

The proposed system of a stock management system is a comprehensive solution for managing inventory levels, reducing costs, improving efficiency, and increasing profitability. The proposed system should include the following components:

1. Inventory tracking system: A system for tracking the quantity, location, and status of inventory items, such as raw materials, finished products, and supplies.

2. Reorder management system: A system for setting optimal reorder points for inventory items to ensure that the business always has enough stock on hand to meet customer demands without overstocking.

3. Supplier management system: A system for managing relationships with suppliers and ensuring that they deliver inventory items on time and at the expected quality level.

4. Sales forecasting system: A system for predicting future sales trends to ensure that the business has the right amount of inventory on hand to meet customer demands.

5. Reporting and analytics system: A system for generating reports and analyzing data to identify trends and make informed decisions about inventory management.

6. Integration with other systems: Integration with other business systems, such as accounting and point-of-sale systems, to ensure that inventory levels are accurately reflected across all systems.

7. Automation: Automating repetitive tasks, such as data entry and inventory tracking, to reduce the likelihood of errors and save time.

8. Barcode/RFID system: A system for tracking inventory items using barcodes or RFID tags, allowing for faster and more accurate inventory management.

9. User access control: A system for controlling user access to the stock management system, ensuring that only authorized users can view and modify inventory data.

Overall, the proposed system of a stock management system should provide a comprehensive solution for managing inventory levels, reducing costs, improving efficiency, and increasing profitability, while addressing the challenges identified in the problem statement.

Advantage Of Project

There are many advantages to implementing a stock management system for a business. These include:

1. Improved inventory management: A stock management system allows businesses to track their inventory levels accurately, reducing the risk of stockouts, overstocking, and other inventory-related issues.

2. Cost savings: By optimizing inventory levels and reducing the need for rush orders, businesses can reduce their costs and improve profitability.

3. Increased efficiency: A stock management system automates many inventory-related tasks, reducing the time and effort required for manual inventory management.

4. Improved customer service: By ensuring that businesses have the right amount of inventory on hand to meet customer demands, a stock management system can improve customer service levels.

5. Better decision-making: A stock management system provides businesses with valuable data and analytics, allowing them to make informed decisions about inventory management, pricing, and other aspects of their business.

6. Improved supplier relationships: By managing supplier relationships more effectively, businesses can improve the quality of their inventory and reduce the risk of delays or other issues.

Overall, a stock management system can help businesses operate more efficiently and effectively, leading to cost savings, improved customer service, and increased profitability.

Functional Requirements:

Functional requirements for a stock management system can vary depending on the specific needs of the business. However, here are some common functional requirements that most businesses will require:

1. Inventory tracking: The system must be able to track the quantity, location, and status of inventory items.

2. Reorder management: The system must be able to set optimal reorder points for inventory items to ensure that the business always has enough stock on hand to meet customer demands without overstocking.

3. Supplier management: The system must be able to manage relationships with suppliers and ensure that they deliver inventory items on time and at the expected quality level.

4. Sales forecasting: The system must be able to predict future sales trends to ensure that the business has the right amount of inventory on hand to meet customer demands.

5. Reporting and analytics: The system must be able to generate reports and analyze data to identify trends and make informed decisions about inventory management.

6. Integration with other systems: The system must be able to integrate with other business systems, such as accounting and point-of-sale systems, to ensure that inventory levels are accurately reflected across all systems.

7. Automation: The system must be able to automate repetitive tasks, such as data entry and inventory tracking, to reduce the likelihood of errors and save time.

8. Barcode/RFID system: The system must be able to track inventory items using barcodes or RFID tags, allowing for faster and more accurate inventory management.

9. User access control: The system must be able to control user access to the stock management system, ensuring that only authorized users can view and modify inventory data.

10. Alerting system: The system should be able to send alerts when inventory levels fall below a certain threshold or when an order has been placed.

Overall, a stock management system must be able to provide the necessary functionality to manage inventory levels efficiently and effectively, reduce costs, and increase profitability.

Non-Functional Requirement:

Non-functional requirements are those that describe the characteristics of the stock management system, rather than its specific functions. Here are some common non-functional requirements for a stock management system:

1. Performance: The system must be able to process inventory data quickly and accurately, even during periods of high demand.

2. Reliability: The system must be reliable and available 24/7, with minimal downtime for maintenance or upgrades.

3. Security: The system must be secure, with measures in place to prevent unauthorized access to inventory data.

4. Scalability: The system must be scalable, allowing the business to add or remove inventory items as needed without impacting the performance of the system.

5. Usability: The system must be easy to use, with an intuitive user interface that requires minimal training.

6. Compatibility: The system must be compatible with the hardware and software used by the business, including mobile devices and web browsers.

7. Flexibility: The system must be flexible, allowing the business to customize the system to meet its specific needs.

8. Maintainability: The system must be easy to maintain, with tools in place to troubleshoot and fix issues as they arise.

9. Data integrity: The system must ensure the accuracy and integrity of inventory data, with measures in place to prevent errors or inconsistencies.

10. Cost-effectiveness: The system must be cost-effective, providing value for money and a good return on investment.

Overall, non-functional requirements are essential for ensuring that the stock management system meets the needs of the business and provides the necessary performance, reliability, security, and usability required to manage inventory levels effectively.

HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

- Processor : Intel i3
- Operating System : Any Operating System
- RAM : 4 GB (or higher)
- Hard disk : 64GB

Software Requirement

- Software used: VS code, XAMPP
- Language used : HTML5, CSS3, JS, Python
- Database: MangoDB.
- Browser: Google Chrome

Feasibility Study:

A feasibility study of a stock management system is a crucial step in the development and implementation of the system. It helps to determine whether the system is technically, economically, and operationally feasible for the business. Here are some key factors to consider when conducting a feasibility study for a stock management system:

1. Technical feasibility: The first step is to assess whether the technology required for the stock management system is available and reliable. The system must be able to integrate with other business systems, such as accounting and point-of-sale systems, and must be compatible with the hardware and software used by the business.

2. Economic feasibility: The system must be cost-effective, and the benefits of implementing the system must outweigh the costs. A cost-benefit analysis can be conducted to determine the return on investment (ROI) and the payback period for the system.

3. Operational feasibility: The system must be able to meet the needs of the business and improve operational efficiency. The system must be easy to use, with an intuitive user interface that requires minimal training. The system must also be flexible, allowing the business to customize the system to meet its specific needs.

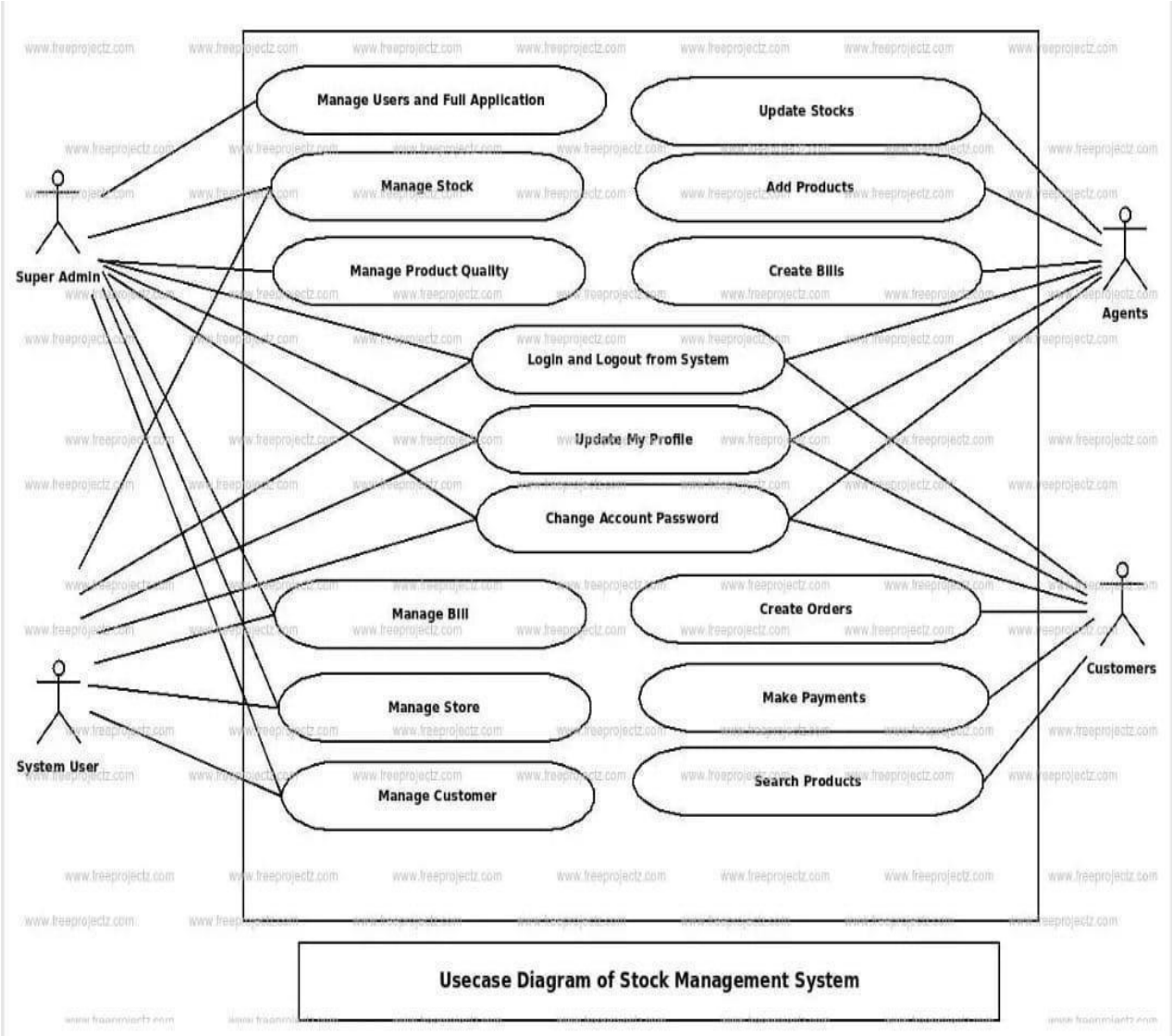
4. Legal feasibility: The system must comply with all relevant laws and regulations, including data privacy and security laws. The system must also be able to protect sensitive inventory data from unauthorized access or theft.

5. Schedule feasibility: The system must be implemented within a reasonable timeframe and should not interfere with the day-to-day operations of the business.

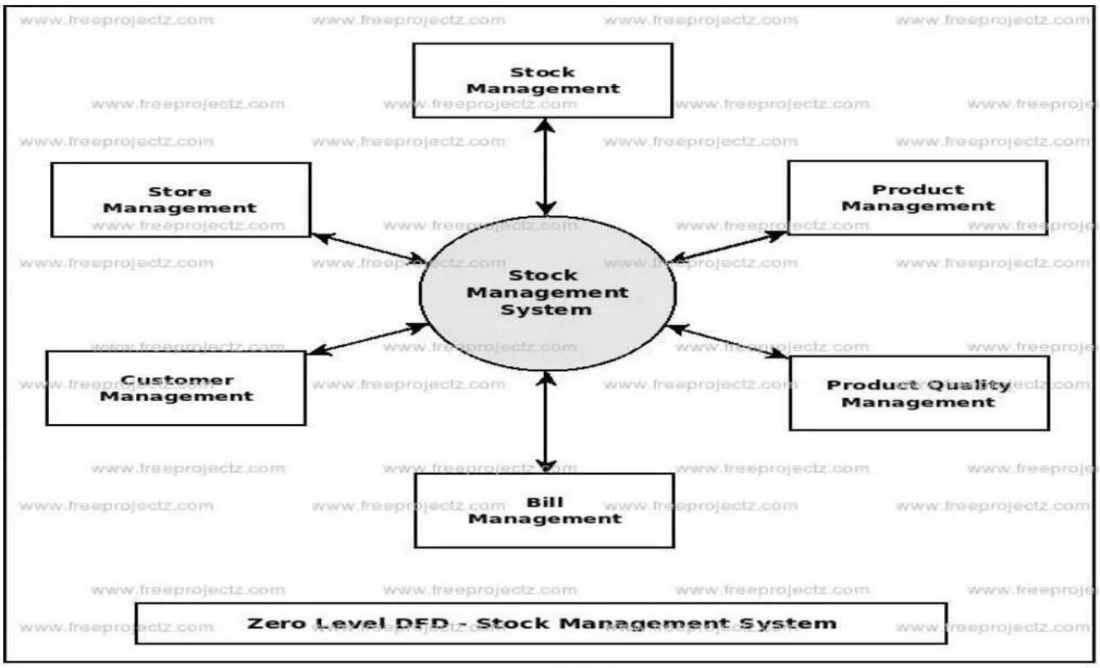
Overall, a feasibility study is essential for determining whether a stock management system is a viable option for a business. It helps to identify potential risks and challenges that may arise during the development and implementation of the system, and provides a roadmap for ensuring the success of the project.

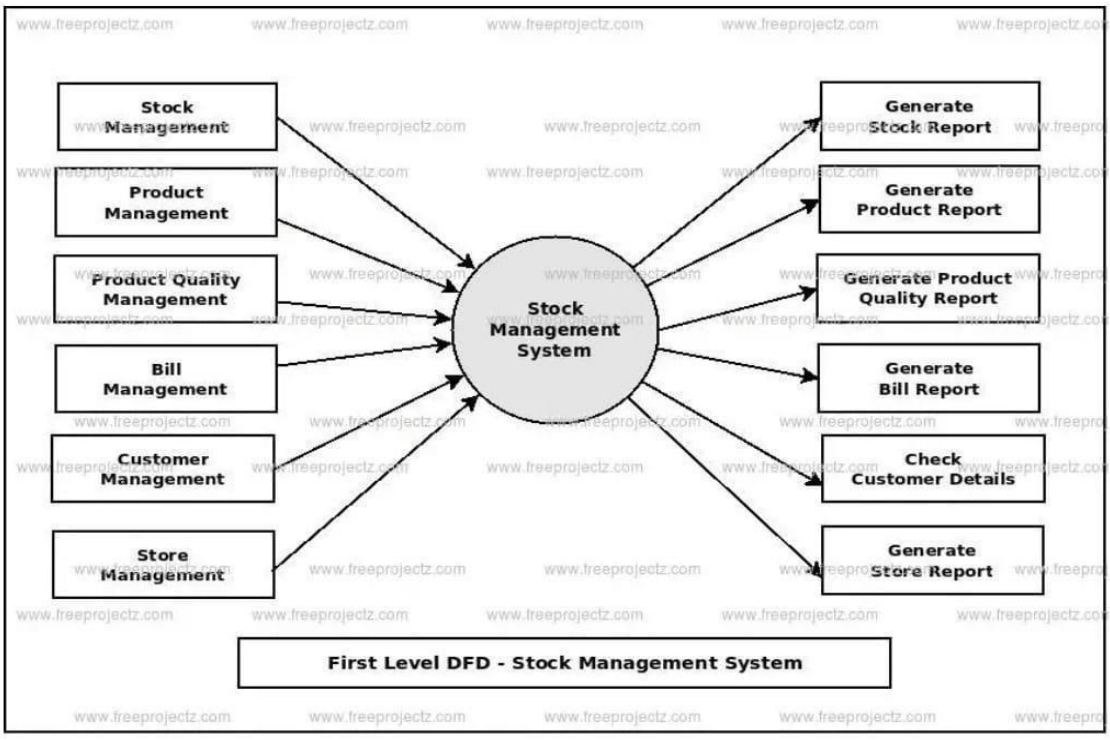
CHAPTER- 3 SOFTWARE DESIG USE-

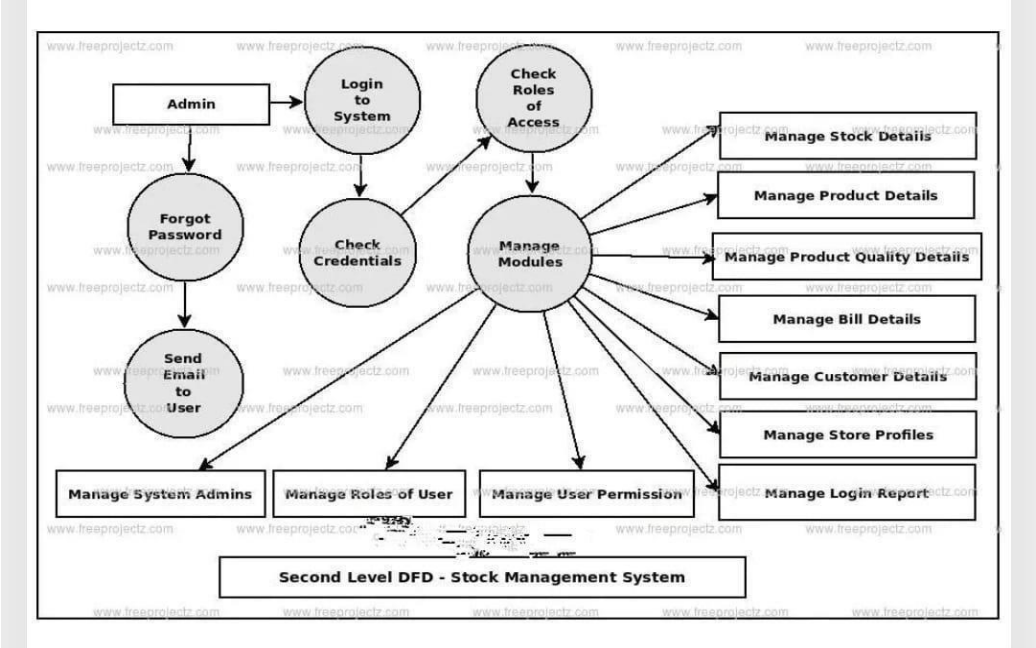
CASE DIAGRAM:



DATA FOW DIAGRAM







WEB DEVELOPMENT

Web development refers to the building, creating, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

The word Web Development is made up of two words, that is:

Web: It refers to websites, web pages or anything that works over the internet.

Development: Building the application from scratch.

TYPES OF WEB DEVELOPMET

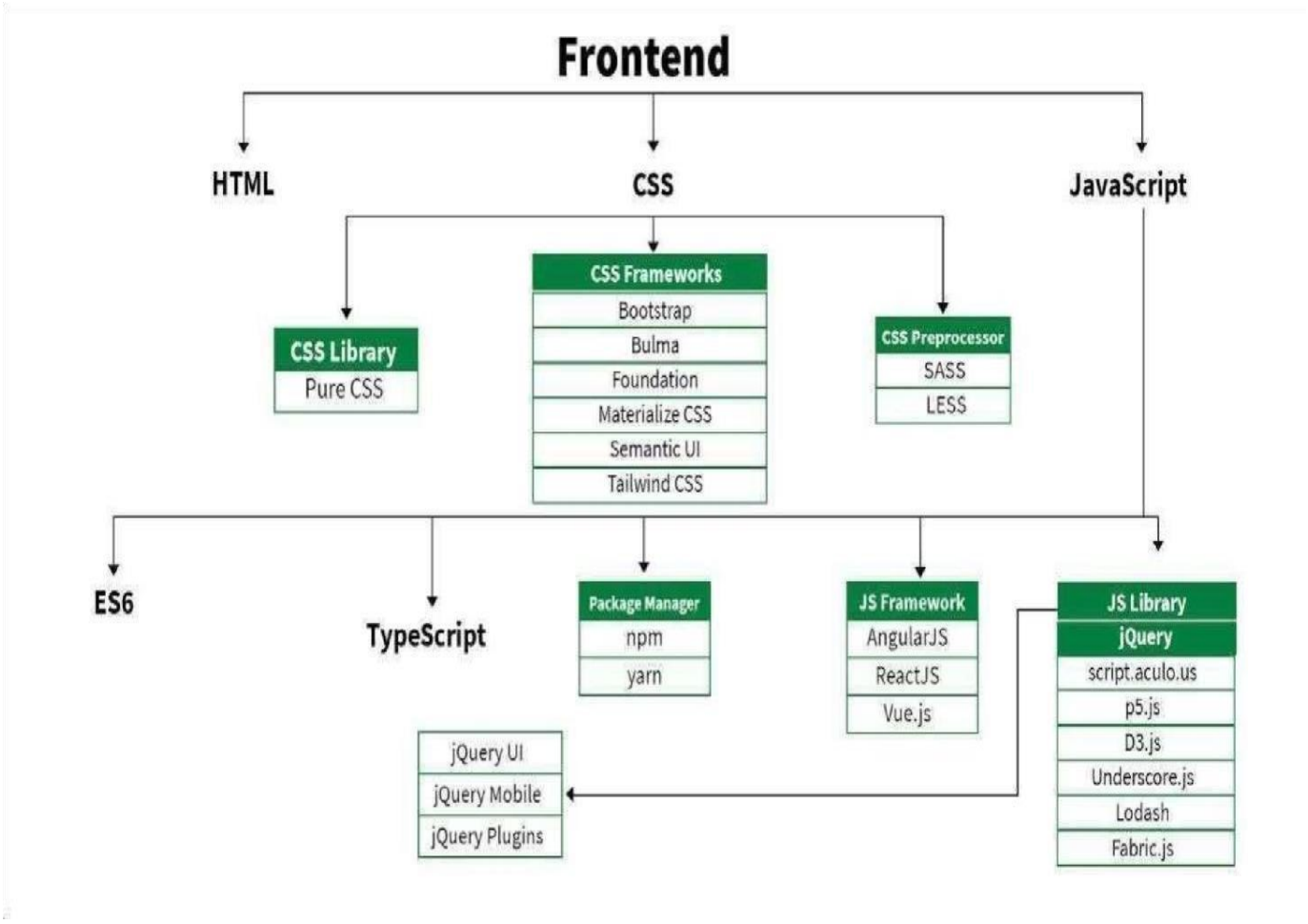
Web Development can be classified into two ways:

1. Frontend Development
2. Backend Development

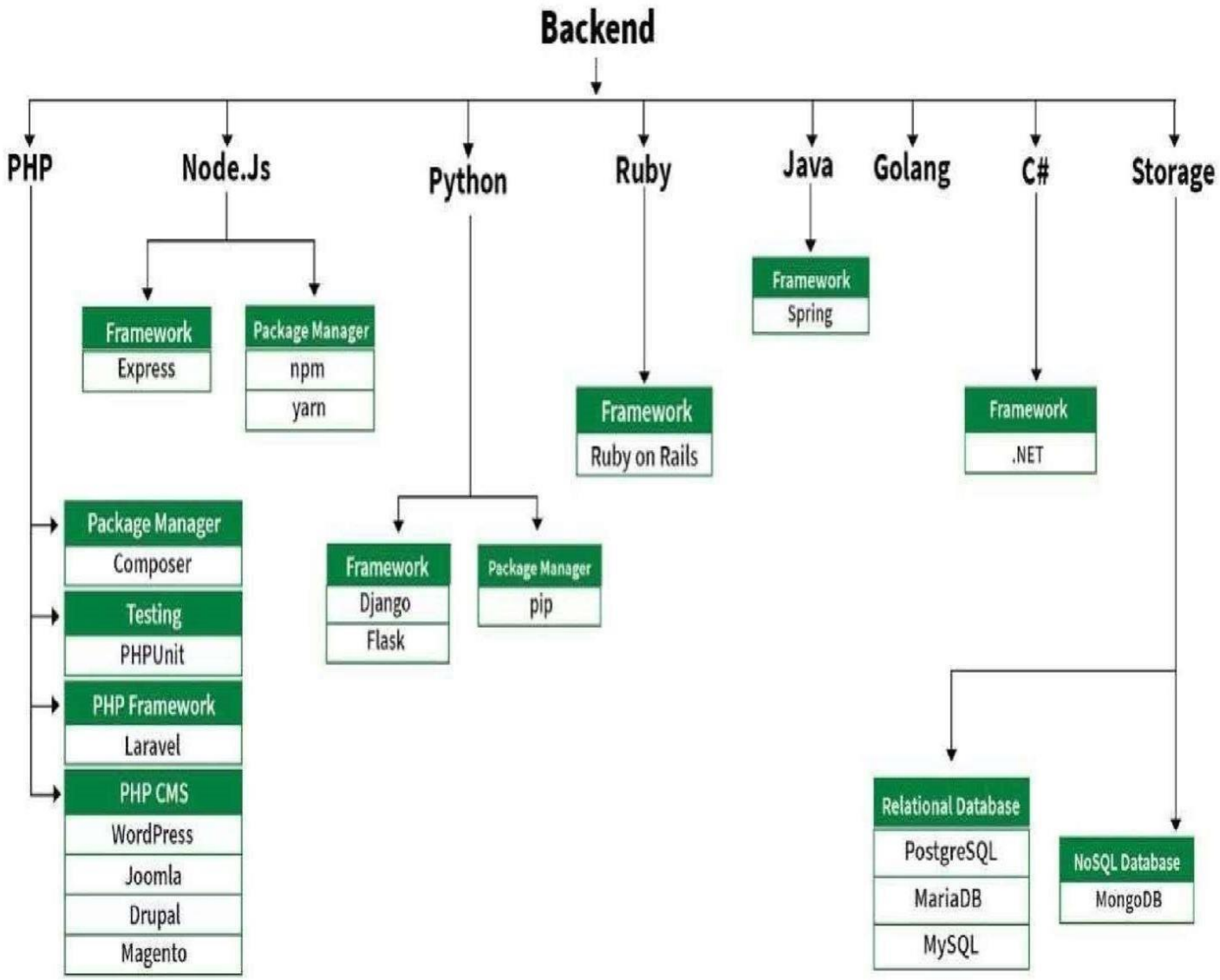
Frontend Development: The part of a website that the user interacts directly is termed as front end. It is also referred to as the ‘client side’ of the application.

Frontend Frameworks and Libraries:
AngularJS
React.js
Vue js
JQuery
BootStramp

Material UI Tailwind CSS jQuery UI Some other libraries and frameworks are: Handlebar.js Backbone.js, Ember.js etc.



2. Backend Development: Backend is the server side of a website. It is the part of the website that users cannot see and interact. It is the portion of software that does not come in direct contact with the users. It is used to store and arrange data.


Backend
PHP
Node.Js
Python
Ruby
Java
Golang
C#
Storage
Framework
Express
Package Manager
npm
yarn
Framework
Spring
Framework
Ruby on Rails
Framework
.NET
Package Manager
Composer
Testing
PHPUnit
PHP Framework
Laravel
PHP CMS
WordPress
Joomla
Drupal
Magento
Framework
Django
Flask
Package Manager
pip
Relational Database
PostgreSQL
MariaDB
MySQL
NoSQL Database
MongoDB

TOOLS AND LANGUAGES USED:

Visual Studio Code: Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality. Visual Studio Code was first announced on April 29, 2015, by Microsoft at the 2015 Build conference. A preview build was released shortly thereafter. On November 18, 2015, the source of Visual Studio Code was released under the MIT License, and made available on GitHub. Extension support was also announced. On April 14, 2016, Visual Studio Code graduated from the public preview stage and was released to the Web. Microsoft has released most of Visual Studio Code's source code on GitHub under the permissive MIT License, while the releases by Microsoft are proprietary freeware. In the Stack Overflow 2021 Developer Survey, Visual Studio Code was ranked the most popular developer environment tool, with 70% of 82,000 respondents reporting that they use it. HTML: HTML stands for Hypertext Markup Language. It is used to design the front end portion of web pages using markup language. It acts as a skeleton for a website since it is used to make the structure of a website.

CSS: Cascading Style Sheets fondly referred to as CSS is a simply designed language intended to simplify the process of making web pages presentable. It is used to style our website.

JavaScript: JavaScript is a scripting language used to provide a dynamic behavior to our website.

Python: Python is a general-purpose, versatile, and powerful programming language. It’s a great first language because Python code is concise and easy to read. Whatever you want to do, python can do it. From web development to machine learning to data science, Python is the language for you.

MangoDB : MongoDB is a cross-platform, document oriented database that provides, high performance, high availability, and easy scalability. MongoDB works on concept of collection and document.

CHAPTER -5
IMPLEMENTATION AND USER INTERFACE

Designing and implementing a stock management system application requires careful planning and consideration of various factors. Here are some steps to guide you in building an effective stock management system:

1. Define the Requirements: The first step is to define the requirements of your stock management system. This involves identifying the features that your application must have, such as inventory tracking, order management, and reporting.

2. Choose the Technology Stack: Once you have defined your requirements, you need to choose the technology stack that you will use to build your application. This includes selecting the programming language, database, and development framework.

3. Design the Database Schema: After choosing your technology stack, you need to design the database schema for your stock management system. This involves creating tables to store information such as product details, inventory levels, and orders.

4. Implement the User Interface: Next, you need to implement the user interface for your stock management system. This includes designing screens for managing inventory, processing orders, and generating reports.

5. Implement Business Logic: After the user interface is complete, you need to implement the business logic for your application. This involves writing code to handle tasks such as updating inventory levels, processing orders, and generating reports.

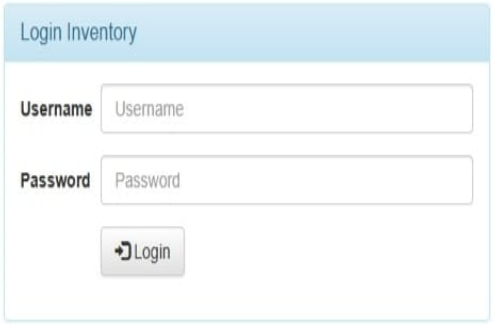
6. Test and Debug: Once the application is complete, you need to test and debug it to ensure that it functions correctly. This involves testing the various features and ensuring that the application is stable and performs well.

7. Deploy and Maintain: Finally, you need to deploy the application and maintain it over time. This includes monitoring the system for errors, fixing bugs, and updating the application to add new features or improve performance.

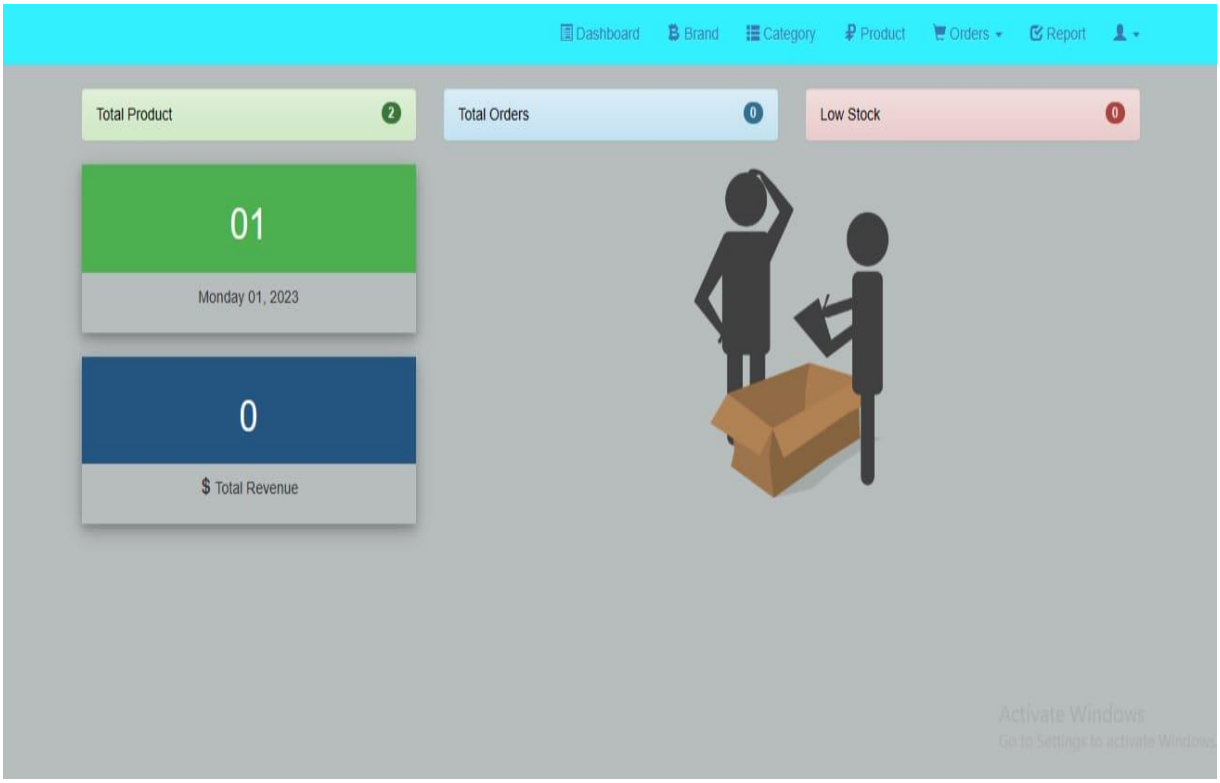
Overall, designing and implementing a stock management system application is a complex process that requires careful planning, attention to detail, and strong technical skills. However, by following these steps and leveraging the right technology stack, you can build a robust and effective stock management system that meets your business needs.

User Interface :

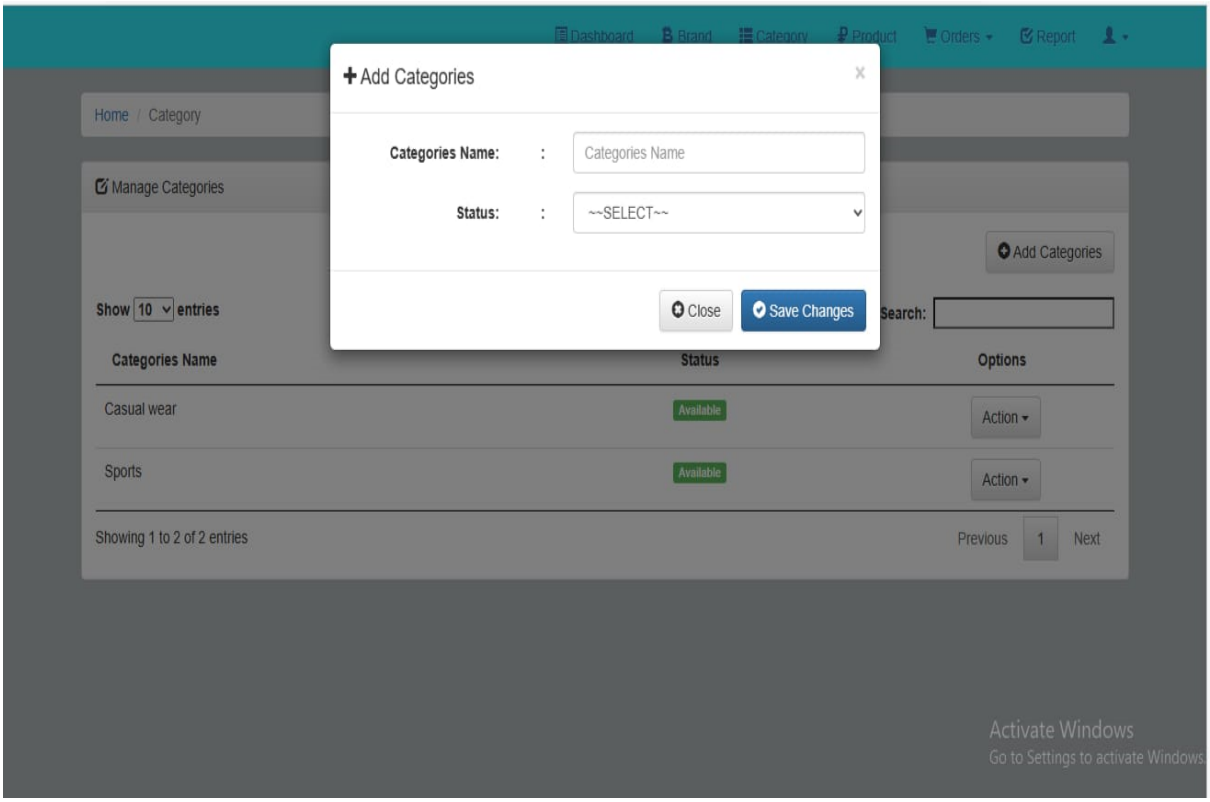
1.Login Page:



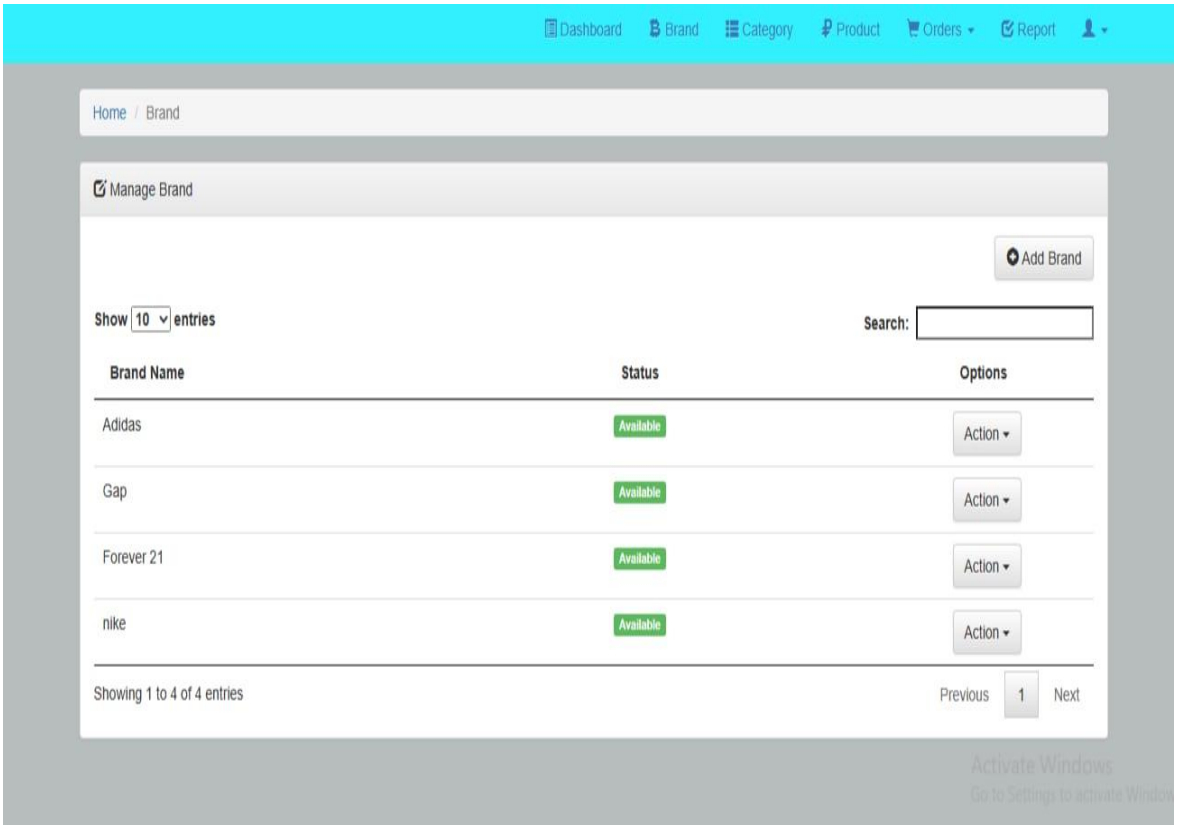
2.DashBoard :



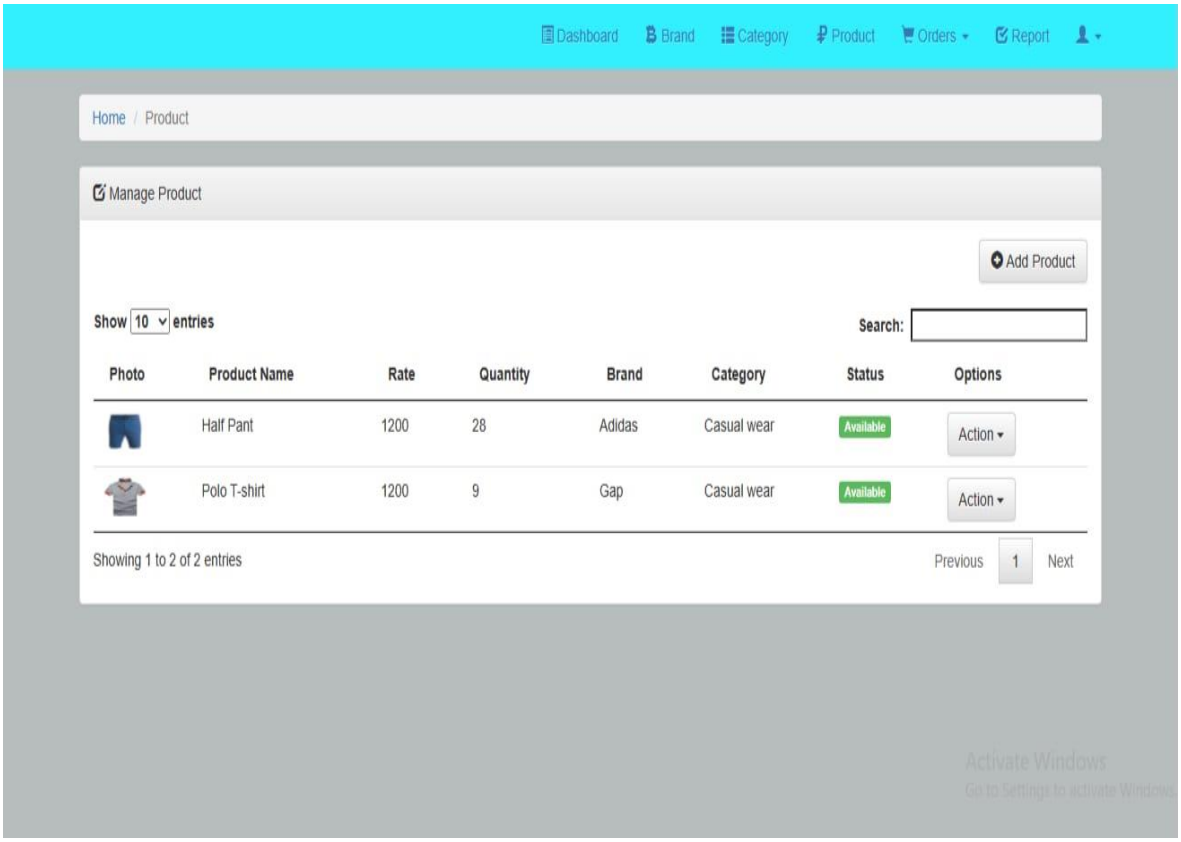
3.Add Categories :



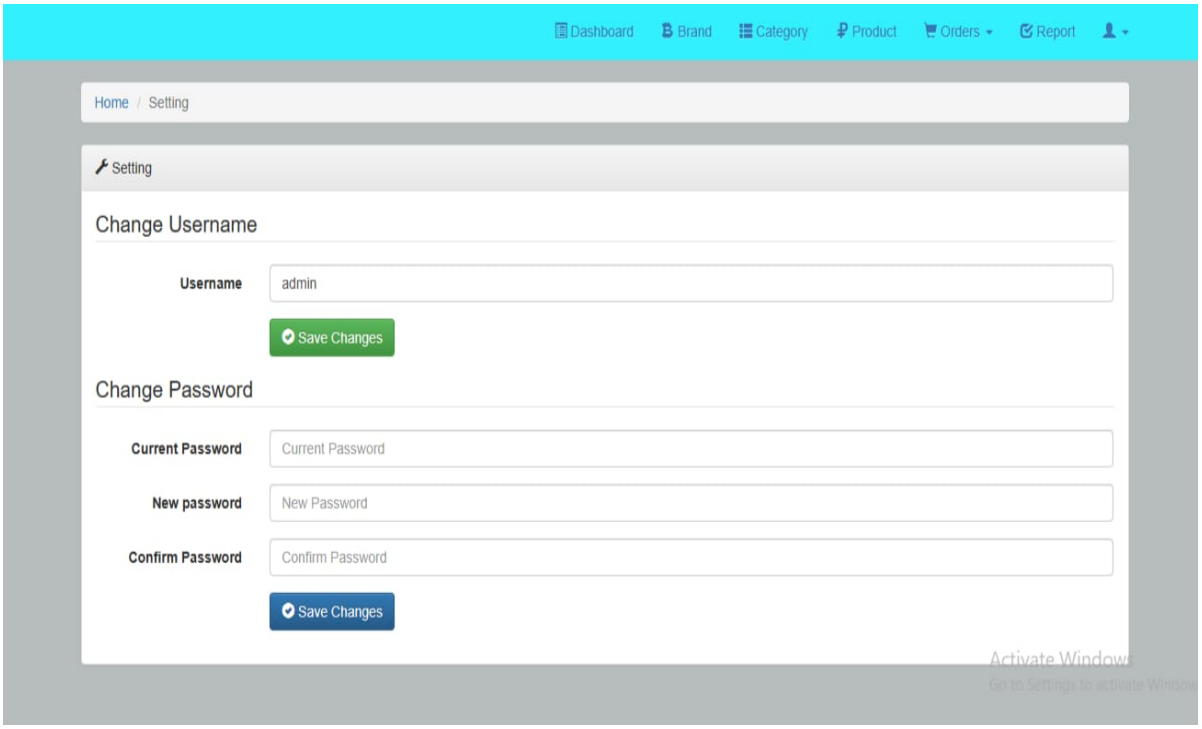
4.Manage Brand :



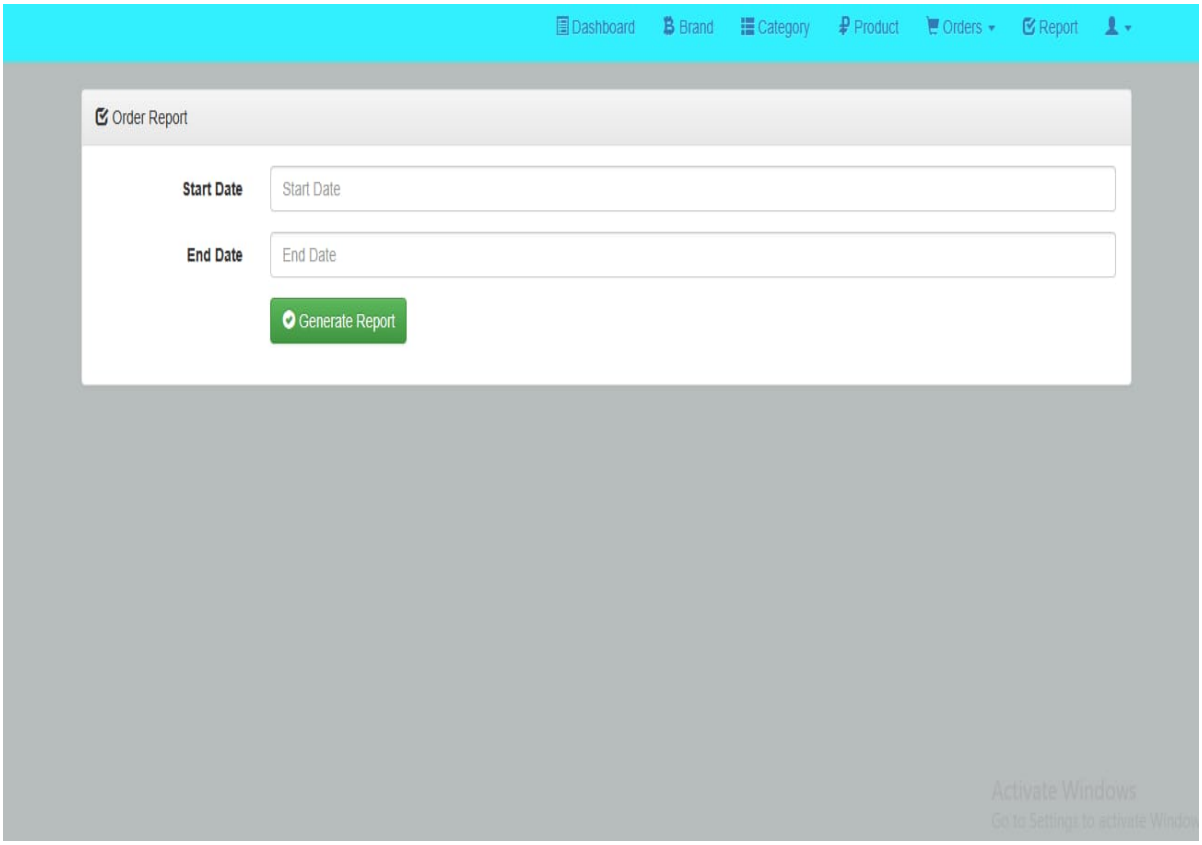
5. Manage Product :



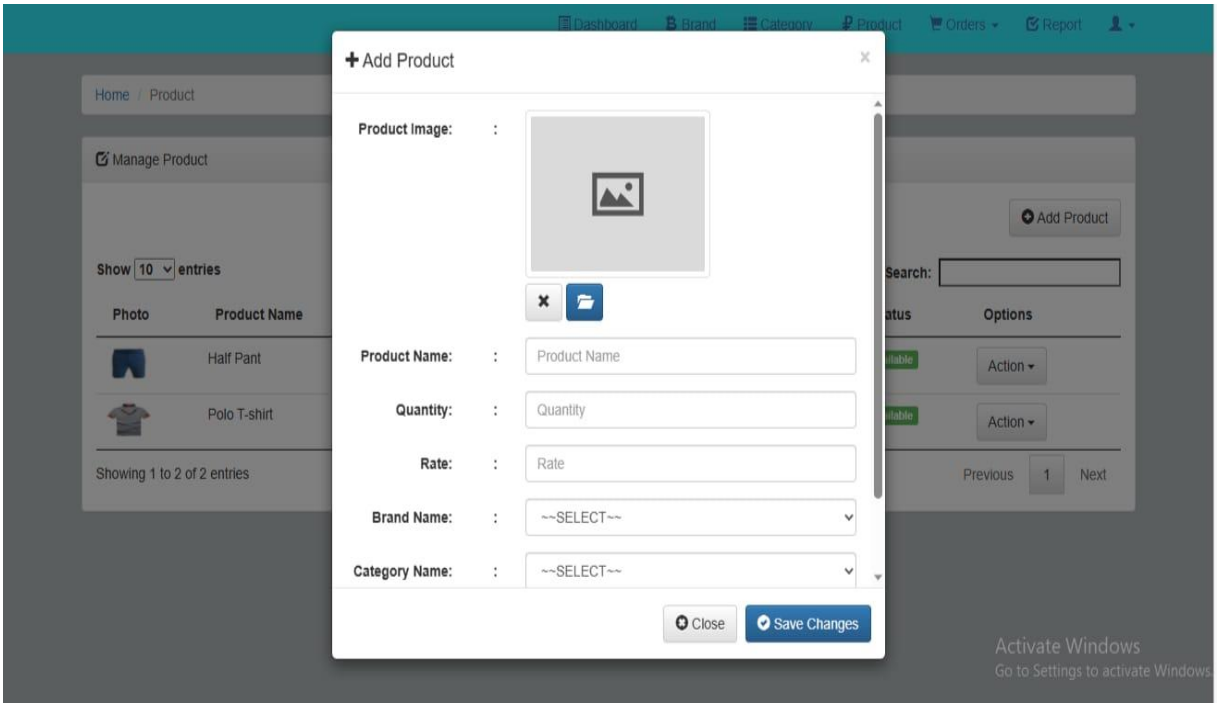
6. Setting :



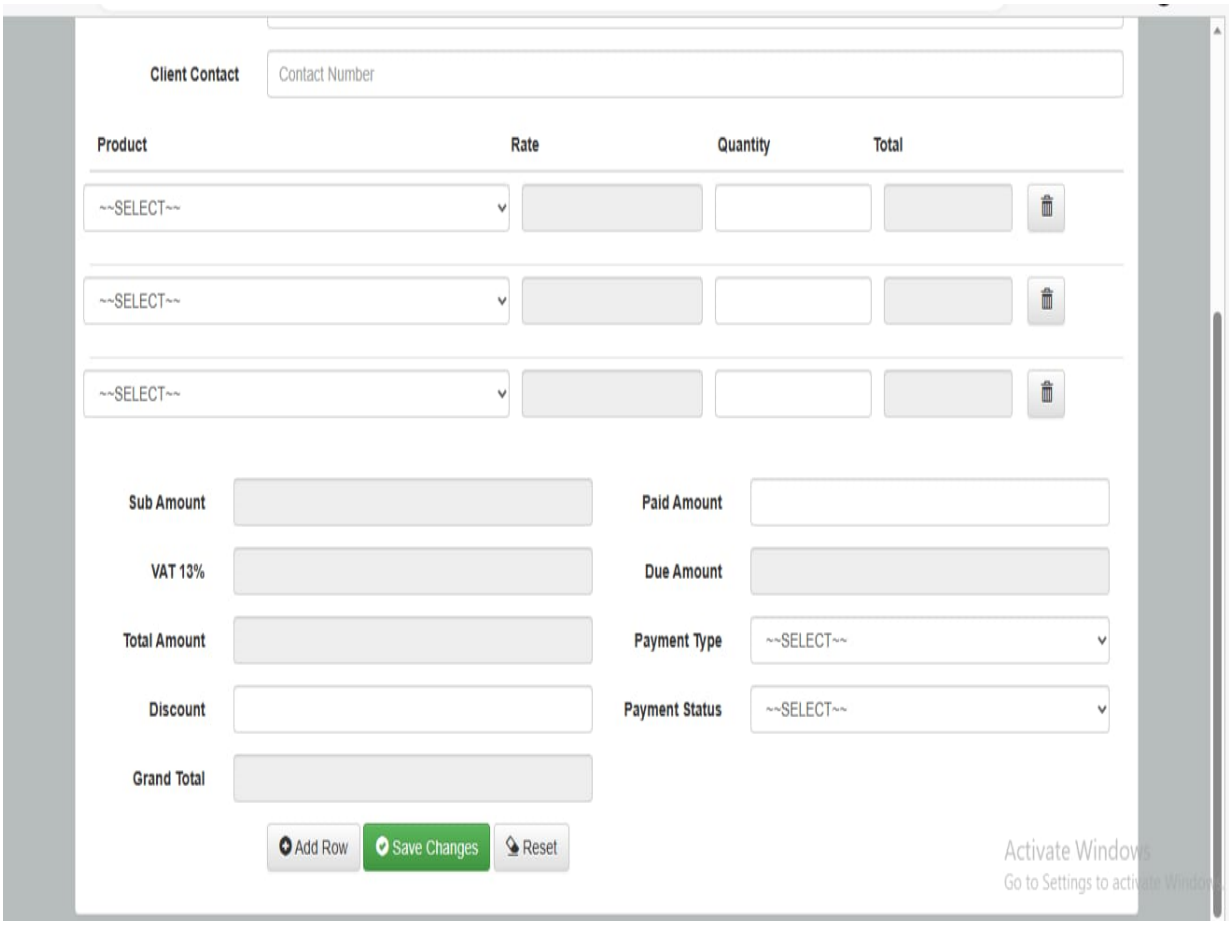
7. Order Report :



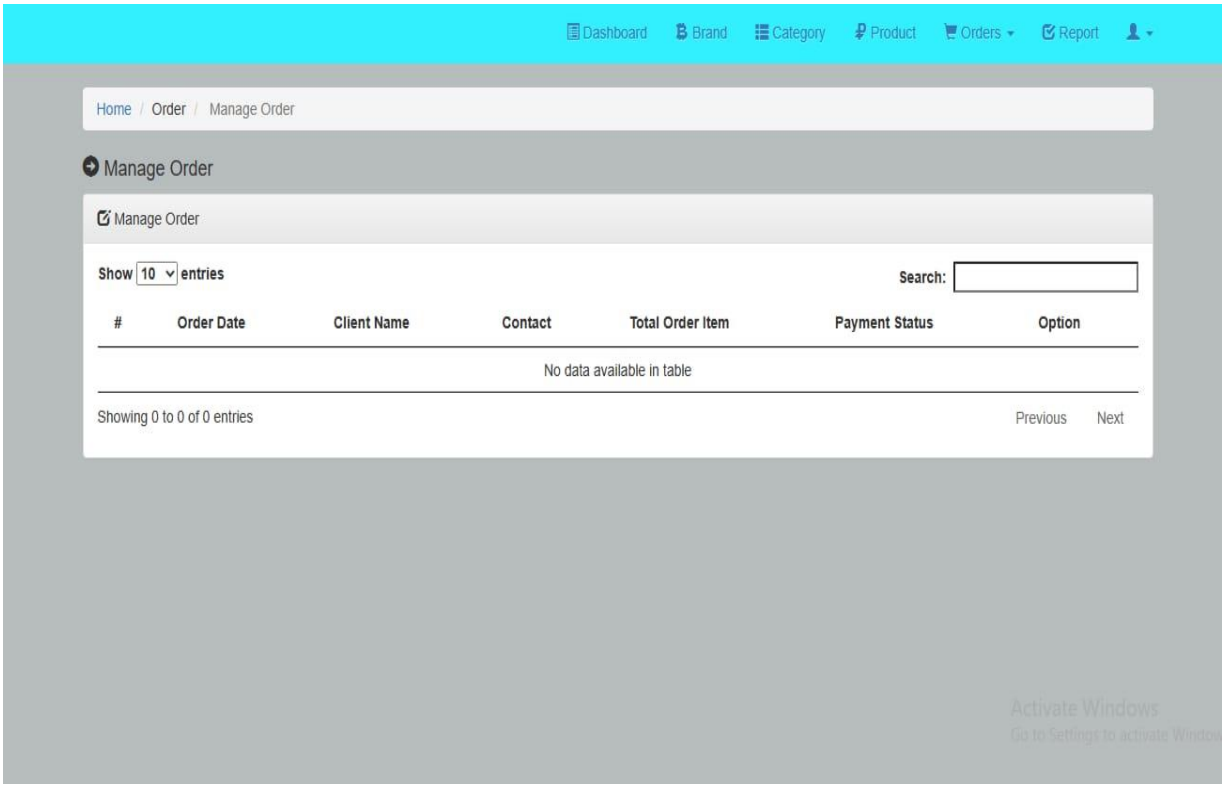
8. Add Product:



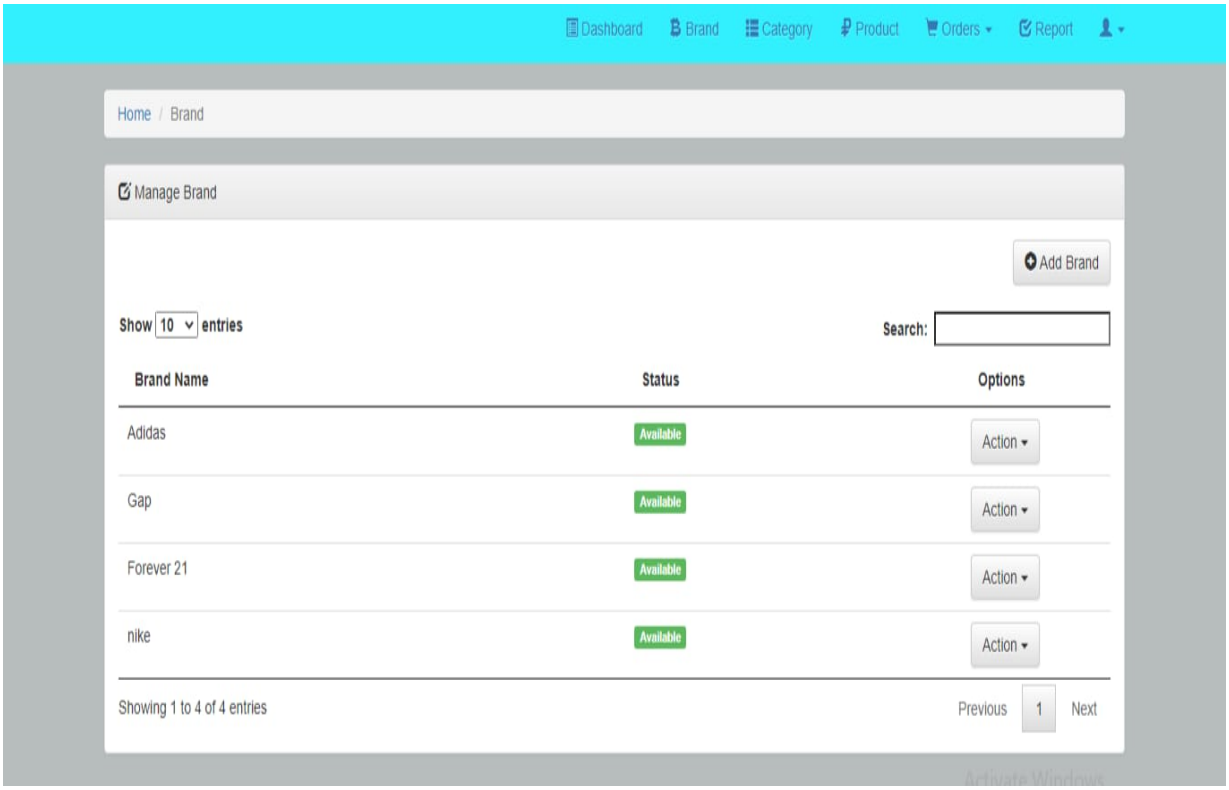
9. Client Information :



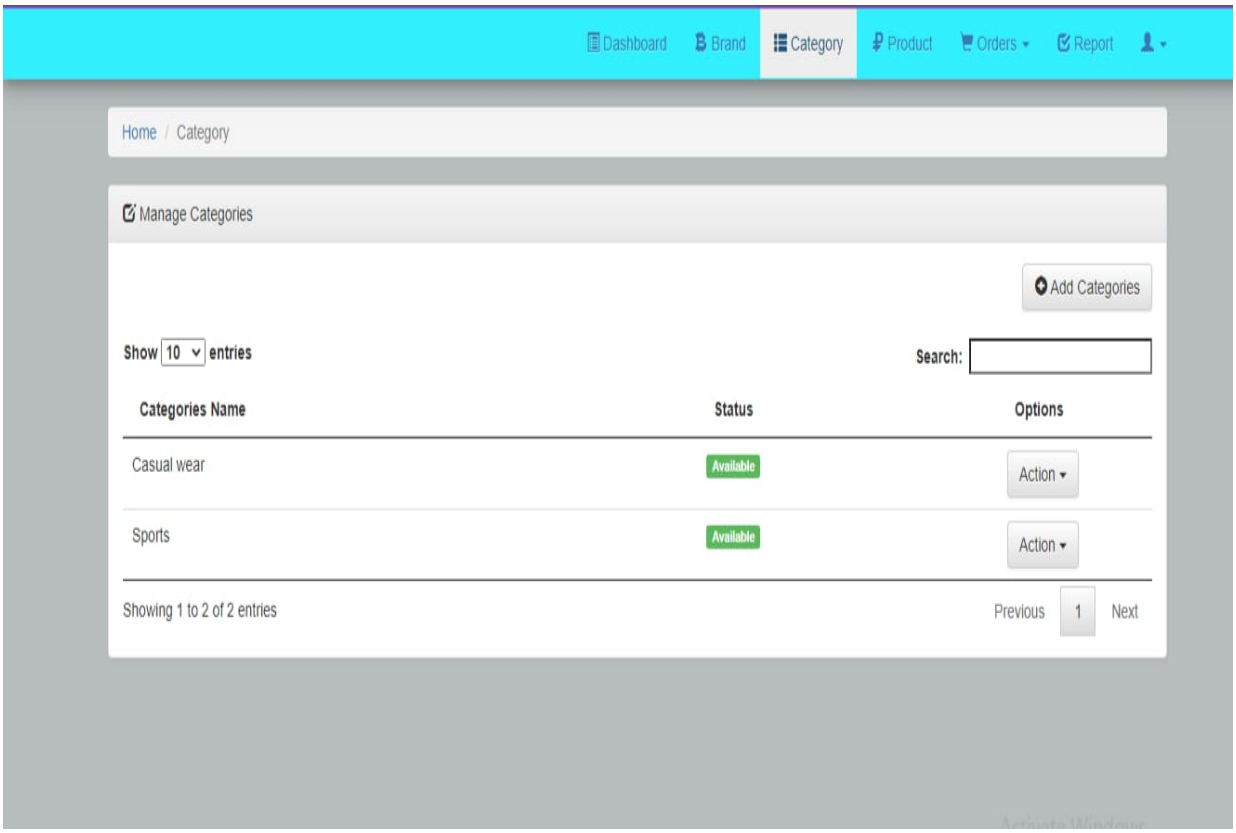
10. Manage Order:



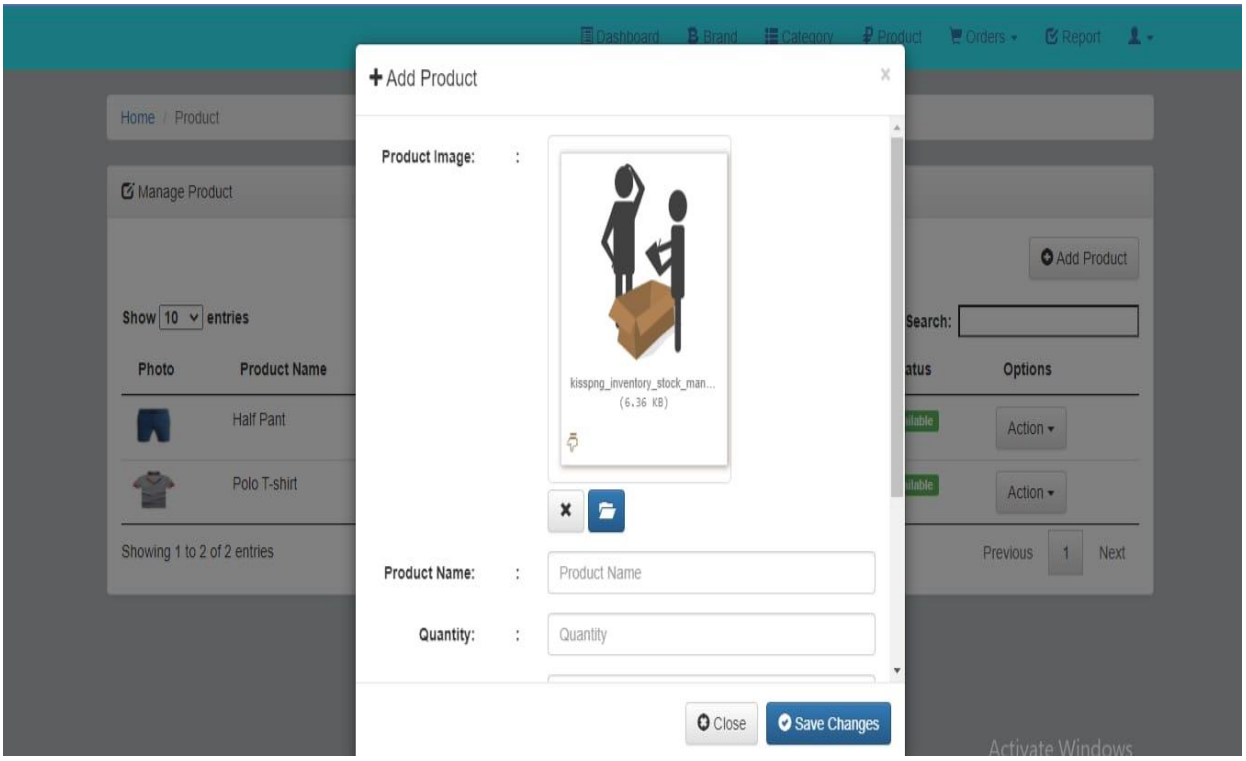
11. Manage Brand :



12. Manage Categories:



13. Add Product:



CHAPTER -7
CONCLUSION

Stock Management System has to do with keeping accurate records of goods that are ready for shipment. This often means having enough stock of goods to the inventory totals as well as subtracting the most recent shipments of finished goods to buyers. When the company has a return policy in place, there is usually a sub-category contained in the finished goods inventory to account for any returned goods that are reclassified or second grade quality. Accurately maintaining figures on the finished goods inventory makes it possible to quickly convey information to sales personnel as to what is available and ready for shipment at any given time by buyer. Stock management is important for keeping costs down, while meeting regulation. Supply and demand is a delicate balance, and inventory management hopes to ensure that the balance is undisturbed. Highly trained Inventory management and high-quality software will help make Stock management a success. The ROI of Stock management will be seen in the forms of increased revenue and profits, positive employee atmosphere, and on overall increase of customer satisfaction.

Regardless of the size of your company, having a proper stock management system is very important for any business. **It can help you keep track of all your supplies and determine the exact prices**. It can also help you manage sudden changes in demand without sacrificing customer experience or product quality.1. JIT is a philosophy that proposes to achieve the maximum with minimum inputs. This can be achieved only if all the parties involved in the entire ecosystem of the supply chain will be committed to achieving this and work cohesively with a great amount of coordination.

REFERENCES

Here are some references for stock management systems that can be useful for further research:

1. "Stock Management System Using Mobile Devices" by C. Seetharaman, S. Sivakumar, and S. Baskar. This paper discusses the design and implementation of a mobile-based stock management system that uses wireless communication and barcode scanning technology to track inventory levels.

2. "A Framework for Stock Management System in Small and Medium Enterprises" by N. Nguenang and E. Tsakadze. This paper proposes a framework for a stock management system that is designed specifically for small and medium-sized enterprises (SMEs) and integrates with other business systems.

3. "Development of an Automated Stock Management System for a Manufacturing Company" by M. O. Adeoye and M. M. Adeniji. This paper describes the development of an automated stock management system for a manufacturing company using radio frequency identification (RFID) technology.

4. "Stock Management System for Small and Medium Enterprises" by D. D. Togara and E. L. Mungwini. This paper proposes a stock management system that uses a hybrid approach, combining manual and electronic methods to track inventory levels in small and medium-sized enterprises.

5. "An Integrated Stock Management System for a Retail Business" by C. T. Dang, T. M. H. Hoang, and L. T. T. Nguyen. This paper presents an integrated stock management system for a retail business that includes features such as inventory tracking, purchasing, and sales management.

These references provide a starting point for further research on stock management systems and their implementation in various industries.